

AMENDMENTS TO CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Currently Amended) An optical system for a projection display apparatus, comprising:

a light source which provides a light beam;

a light valve which receives and reflects the light beam of said light source;

a projection lens which is arranged in the optical path of the reflection light of said light valve; and

a prism which is arranged among said light source, said light valve, and said lens, said prism having a beveled total internal reflection surface which the light beam passes through directly to impinge onto said light valve and is reflected by said light valve to said projection lens[[]], and

~~said light source is arranged adjacent to said beveled total internal reflecting surface wherein said light source, said light valve, and said projection lens are, respectively, adjacent to different surfaces of said prism, and~~

where light from the light source therefore passes through only two surfaces between the light source and the light valve , and only two surfaces between the light valve and the projection lens, thereby minimizing transmission and reflection losses.

2. (Previously Presented) The optical system according to claim 1, wherein said prism is a straight pillar prism.

3. (Previously Presented) The optical system according to claim 1, wherein said prism is a triangle pillar prism.

4. (Canceled)

5. (Currently Amended) The optical system according to claim 1, wherein four edges of said light valve are each parallel to four edges of ~~the~~a surface of said prism in which the surface is opposite to said light valve.

6. (Canceled)

7. (Canceled)

8. (Canceled)

9. (Canceled)

10. (Canceled)

11. (Currently Amended) An optical system for a projection display apparatus, comprising:

a light source which provides a light beam;

a light valve which receives and reflects the light beam of said light source;

a projection lens which is arranged in the optical path of the reflection light of said light valve;

a prism which is arranged among said light source, said light valve, and said lens, said prism having a total internal reflection surface which the light beam passes through directly to impinge onto said light valve and is reflected by said light valve to said projection lens; and

a lens which is arranged between said total internal reflection surface and said light source; and

wherein said lens is an asymmetric lens.

12. (Currently Amended) An optical system for a projection display apparatus, comprising:

a light source which provides a light beam;

a light valve which receives and reflects the light beam of said light source;

a projection lens which is arranged in the optical path of the reflection light of said light valve;

a prism which is arranged among said light source, said light valve, and said lens, said prism having a total internal reflection surface which the light beam passes through directly to impinge onto said light valve and is reflected by said light valve to said projection lens; and

an auxiliary prism which is arranged between said total internal reflection surface and said light source, which the auxiliary prism is straight pillar shape with a space apart to said total internal reflection surface[[:]], and

wherein said auxiliary prism has a reflection surface to reflect the light beam, which emits from said light source, enters said auxiliary prism, and impinges to said reflection surface with an incidental angle larger than the critical total reflection angle, through said prism to impinge into said light valve.